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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/080,113

DATE: 03/11/2002
TIME: 10:51:00

Input Set : A:\62606pa.app
Output Set: N:\CRF3\03112002\J080113.raw

3 <110> APPLICANT: SACHS, GEORGE
4 VOLAND, PETRA
6 <120> TITLE OF INVENTION: COMPOSITIONS, TEST KITS AND METHODS FOR DETECTING
7 HELICOBACTER PYLORI
9 <130> FILE REFERENCE: 626 06 PA
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/080,113
C--> 12 <141> CURRENT FILING DATE: 2002-02-21
14 <160> NUMBER OF SEQ ID NOS: 4
16 <170> SOFTWARE: PatentIn Ver. 2.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 249
20 <212> TYPE: PRT
21 <213> ORGANISM: Helicobacter pylori
23 <400> SEQUENCE: 1
24 Met Lys Lys Gly Ser Leu Ala Ile Val Leu Gly Ser Leu Leu Ala Ser
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27 Gly Ala Phe Tyr Thr Ala Leu Ala Asp Gly Met Pro Ala Lys Gln Gln
28 20 25 30
30 His Asn Asn Thr Gly Glu Ser Val Glu Leu His Phe His Tyr Pro Ile
31 35 40 45
33 Lys Gly Lys Gln Glu Pro Lys Asn Ser His Leu Val Val Leu Ile Glu
34 50 55 60
36 Pro Lys Ile Glu Ile Asn Lys Val Ile Pro Glu Ser Tyr Gln Lys Glu
37 65 70 75 80
39 Phe Glu Lys Ser Leu Phe Leu Gln Leu Ser Ser Phe Leu Glu Arg Lys
40 85 90 95
42 Gly Tyr Ser Val Ser Gln Phe Lys Asp Ala Ser Glu Ile Pro Gln Asp
43 100 105 110
45 Ile Lys Glu Lys Ala Leu Leu Val Leu Arg Met Asp Gly Asn Val Ala
46 115 120 125
48 Ile Leu Glu Asp Ile Val Glu Glu Ser Asp Ala Leu Ser Glu Glu Lys
49 130 135 140
51 Val Ile Asp Met Ser Ser Gly Tyr Leu Asn Leu Asn Phe Val Glu Pro
52 145 150 155 160
54 Lys Ser Glu Asp Ile Ile His Ser Phe Gly Ile Asp Val Ser Lys Ile
55 165 170 175
57 Lys Ala Val Ile Glu Arg Val Glu Leu Arg Arg Thr Asn Ser Gly Gly
58 180 185 190
60 Phe Val Pro Lys Thr Phe Val His Arg Ile Lys Glu Thr Asp His Asp
61 195 200 205
63 Gln Ala Ile Arg Lys Ile Met Asn Gln Ala Tyr His Lys Val Met Val
64 210 215 220
66 His Ile Thr Lys Glu Leu Ser Lys Lys His Met Glu His Tyr Glu Lys

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67 225                230                235                240
69 Val Ser Ser Glu Met Lys Lys Arg Lys
70                245
73 <210> SEQ ID NO: 2
74 <211> LENGTH: 179
75 <212> TYPE: PRT
76 <213> ORGANISM: Helicobacter pylori
78 <400> SEQUENCE: 2
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80 1                5                10                15
82 Ala Gly Cys Ser His Lys Met Asp Asn Lys Thr Val Ala Gly Asp Val
83                20                25                30
85 Ser Ala Lys Thr Val Gln Thr Ala Pro Val Thr Thr Glu Pro Ala Pro
86                35                40                45
88 Glu Lys Glu Glu Pro Lys Gln Glu Pro Ala Pro Val Val Glu Glu Lys
89                50                55                60
91 Pro Ala Val Glu Ser Gly Thr Ile Ile Ala Ser Ile Tyr Phe Asp Phe
92 65                70                75                80
94 Asp Lys Tyr Glu Ile Lys Glu Ser Asp Gln Glu Thr Leu Asp Glu Ile
95                85                90                95
97 Val Gln Lys Ala Lys Glu Asn His Met Gln Val Leu Leu Glu Gly Asn
98                100                105                110
100 Thr Asp Glu Phe Gly Ser Ser Glu Tyr Asn Gln Ala Leu Gly Val Lys
101                115                120                125
103 Arg Thr Leu Ser Val Lys Asn Ala Leu Val Ile Lys Gly Val Glu Lys
104                130                135                140
106 Asp Met Ile Lys Thr Ile Ser Phe Gly Glu Thr Lys Pro Lys Cys Ala
107 145                150                155                160
109 Gln Lys Thr Arg Glu Cys Tyr Lys Glu Asn Arg Arg Val Asp Val Lys
110                165                170                175
112 Leu Met Lys
116 <210> SEQ ID NO: 3
117 <211> LENGTH: 192
118 <212> TYPE: PRT
119 <213> ORGANISM: Helicobacter pylori
121 <400> SEQUENCE: 3
122 Met Leu Glu Lys Ser Phe Leu Lys Ser Lys Gln Leu Phe Leu Cys Gly
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125 Leu Gly Val Leu Met Leu Gln Ala Cys Thr Cys Pro Asn Thr Ser Gln
126                20                25                30
128 Arg Asn Ser Phe Leu Gln Asp Val Pro Tyr Trp Met Leu Gln Asn Arg
129                35                40                45
131 Ser Glu Tyr Ile Thr Gln Gly Val Asp Ser Ser His Ile Val Asp Gly
132                50                55                60
134 Lys Lys Thr Glu Glu Ile Glu Lys Ile Ala Thr Lys Arg Ala Thr Ile
135 65                70                75                80
137 Arg Val Ala Gln Asn Ile Val His Lys Leu Lys Glu Ala Tyr Leu Ser
138                85                90                95
140 Lys Thr Asn Arg Ile Lys Gln Lys Ile Thr Asn Glu Met Phe Ile Gln

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141          100          105          110
143 Met Thr Gln Pro Ile Tyr Asp Ser Leu Met Asn Val Asp Arg Leu Gly
144          115          120          125
146 Ile Tyr Ile Asn Pro Asn Asn Glu Glu Val Phe Ala Leu Val Arg Ala
147          130          135          140
149 Arg Gly Phe Asp Lys Asp Ala Leu Ser Glu Gly Leu His Lys Met Ser
150 145          150          155          160
152 Leu Asp Asn Gln Ala Val Ser Ile Leu Val Ala Lys Val Glu Glu Ile
153          165          170          175
155 Phe Lys Asp Ser Val Asn Tyr Gly Asp Val Lys Val Pro Ile Ala Met
156          180          185          190
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160 <211> LENGTH: 144
161 <212> TYPE: PRT
162 <213> ORGANISM: Helicobacter pylori
164 <400> SEQUENCE: 4
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168 Phe Val Leu Leu Trp Ala Met Asn Val Trp Val Tyr Arg Pro Leu
169 20 25 30
171 Leu Ala Phe Met Asp Asn Arg Gln Ala Glu Ile Lys Asp Ser Leu Ala
172 35 40 45
174 Lys Ile Lys Thr Asp Asn Ala Gln Ser Val Glu Ile Gly His Gln Ile
175 50 55 60
177 Glu Ala Leu Leu Lys Glu Ala Ala Glu Lys Arg Arg Glu Ile Ile Ala
178 65 70 75 80
180 Glu Ala Ile Gln Lys Ala Thr Glu Ser Tyr Asp Ala Val Ile Lys Gln
181 85 90 95
183 Lys Glu Asn Glu Leu Asn Gln Glu Phe Glu Ala Phe Ala Lys Gln Leu
184 100 105 110
186 Gln Asn Glu Lys Gln Ala Leu Lys Glu Gln Leu Gln Ala Gln Met Pro
187 115 120 125
189 Val Phe Glu Asp Glu Leu Asn Lys Arg Val Ala Met Gly Leu Gly Ser
190 130 135 140

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VERIFICATION SUMMARY

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PATENT APPLICATION: US/10/080,113

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L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date